

**IN THE CLAIMS:**

Please amend claims 1, 7 and 13 as follows:

**LISTING OF CURRENT CLAIMS**

Claim 1. (Currently Amended) A method for processing perfluorocompounds (PFCs) exhaust, comprising the steps of:

- (a) creating steam in a steam conduit encircling a reacting chamber utilizing heat from the reacting chamber;
- 5        (a)(b) introducing the PFCs exhaust and the steam into ~~a~~ the reacting chamber after passing through a plasma torch and subjecting the PFCs to instantaneous pyrolysis to produce exhaust products, the steam being supplied by ~~a~~ the steam conduit encircling the reacting chamber;
- 10        (b)(c) introducing external air into a combustion chamber to react with exhaust products in the combustion chamber;
- (e)(d) dissolving HF in the exhaust products in a water tank set and removing fine solid molecules in the exhaust products and precipitated in the water tank set; and
- 15        (d)(e) processing the remaining exhaust products by a wet washing tower.

Claim 2. (Original) The method for processing perfluorocompounds exhaust in Claim 1, wherein the steam in the steam conduit is converted from liquid water flowing the steam conduit by heat produced by the reactions of the PFCs exhaust in the reacting chamber.

Claim 3. (Original) The method for processing perfluorocompounds exhaust in Claim 2, wherein the liquid water is circulating water originates from the water tank set.

Claim 4. (Original) The method for processing perfluorocompounds exhaust in Claim 1, wherein the external air is introduced into the combustion chamber by means of a regulating valve.

Claim 5. (Original) The method for processing perfluorocompounds exhaust in Claim 4, wherein the combustion chamber includes a plurality of regulating valves.

Claim 6. (Original) The method for processing perfluorocompounds exhaust in Claim 1, wherein the steam conduit reduces temperature of the reacting chamber during combustion.

Claim 7. (Currently Amended) A method for processing perfluorocompounds exhaust, comprising the steps of:

- (a) creating steam in a steam conduit encircling a reacting chamber utilizing heat from the reacting chamber;
- 5        (a)(b) introducing the PFCs exhaust and the steam into a the reacting chamber after passing through a plasma torch and subjecting the PFCs to instantaneous pyrolysis to produce exhaust products;
- (b)(c) introducing external air into a combustion chamber to react with exhaust products in the combustion chamber;
- 10        (e)(d) processing the exhaust products in a water tank set; and
- (d)(e) processing the remaining exhaust products by a wet washing tower.

Claim 8. (Original) The method for processing perfluorocompounds exhaust in Claim 7, wherein the steam is supplied by a steam conduit encircling the reacting chamber, and the steam in the steam conduit is converted from liquid water flowing the steam conduit by heat produced by the reactions of the PFCs exhaust in the reacting chamber.

Claim 9. (Original) The method for processing perfluorocompounds exhaust in Claim 8, wherein the liquid water is circulating water originates from the water tank set.

Claim 10. (Original) The method for processing perfluorocompounds exhaust in Claim 7, wherein the combustion chamber is connected to a downstream of the reacting chamber.

Claim 11. (Original) The method for processing perfluorocompounds exhaust in Claim 7, wherein combustion chamber includes a plurality of regulating valves.

Claim 12. (Original) The method for processing perfluorocompounds exhaust in Claim 7, wherein the steam conduit reduces temperature of the reacting chamber during combustion.

Claim 13. (Currently Amended) A method for processing perfluorocompounds exhaust, comprising the steps of:

- (a) creating steam in a steam conduit encircling a reacting chamber utilizing heat from the reacting chamber;
- 5        ~~(a)~~(b) introducing the PFCs exhaust and the steam into ~~a~~ the reacting chamber after passing through a plasma torch and subjecting the PFCs to instantaneous pyrolysis to produce exhaust products, the steam being supplied by ~~a~~ the steam conduit encircling the reacting chamber;
- 10        ~~(b)~~(c) dissolving HF in the exhaust products in a water tank set and removing fine solid molecules in the exhaust products and precipitated in the water tank set; and
- ~~(c)~~(d) processing the remaining exhaust products by a wet washing tower.

Claim 14. (Original) The method for processing perfluorocompounds exhaust in Claim 13, wherein the steam in the steam conduit is converted from liquid water flowing the steam conduit by heat produced by the reactions of the PFCs exhaust in the reacting chamber.

Application No. 10/754,730

Claim 15. (Original) The method for processing perfluorocompounds exhaust in Claim 14, wherein the liquid water is circulating water originates from the water tank set.

Claim 16. (Original) The method for processing perfluorocompounds exhaust in Claim 13, wherein the steam conduit reduces temperature of the reacting chamber during combustion.